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#### 1 [MPEG-4 Systems: Architecting Object-Based Audio-Visual Content](#)

Alexandros Eleftheriadis

February 2001

[Journal of VLSI Signal Processing Systems](#), Volume 27 Issue 1/2

Publisher: Kluwer Academic Publishers

Full text available [PDF](#) [Publisher Site](#)

Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: ...

We describe the architecture and key features of the MPEG-4 Systems specification, as well as the encoding methodology of its various components: scene description and BIFS, animation streams, object descriptors, object content information, as well as ...

**Keywords:** MPEG-4 systems, digital audio and video, interactive multimedia, object-based representation

#### 2 [Designing and Implementing malicious hardware](#)

Samuel T. King, Joseph Tucek, Anthony Ozzeo, Chris Grier, Weiliang Jiang, Yuanxian Zhou

April 2008

[LEET'08: Proceedings of the 1st Usenix Workshop on Large-Scale Exploits and Emergent Threats](#)

Publisher: USENIX Association

Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: ...

Hidden malicious circuits provide an attacker with a stealthy attack vector. As they occupy a layer below the end software stack, malicious circuits can bypass traditional defensive techniques. Yet current work on trojan circuit considers only simple ...

#### 3 [Communications of the ACM: Volume 52 Issue 3](#)

March 2009

[Communications of the ACM](#)

Publisher: ACM

Full text available [PDF](#) [Digital Edition](#), [PDF](#) (7.04 MB)

Bibliometrics Downloads (6 Weeks): 182, Downloads (12 Months): 207, Downloads (Overall): 2566, Citation Count: ...

#### 4 [Fast detection of communication patterns in distributed executions](#)

Thomas Kurz, Michael F. M. Severson

November 1997 [CASCON '97: Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research](#)

Publisher: IBM Press

Full text available [PDF](#) (4.21 MB)

Bibliometrics Downloads (6 Weeks): 36, Downloads (12 Months): 270, Downloads (Overall): 5991, Citation Count: ...

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization we use is Poet, an event ...

#### 5 [OPUS: online patches and updates for security](#)

Gautam Altekar, Ilya Bagrak, Paul Bursztyn, Andrew Schmitz

July 2005 [SSYM'05: Proceedings of the 14th conference on USENIX Security Symposium - Volume 14](#)

Volume 14

Publisher: USENIX Association

Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: ...

We present OPUS, a tool for dynamic software patching capable of applying fixes to a C program at run-time. OPUS's primary goal is to enable application of security patches to interactive applications that are a frequent target of security exploits ...

- 6 Risks to the public**  
 Peter G. Neumann  
 September 2007  
**Publisher:** ACM  
 Full text available  (304.74 KB)  
**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 76, Downloads (Overall): 510, Citation Count: 0
- 7 The OSU Flow-tools Package and CISCO NetFlow Logs**  
 Steve Song  
 December 2000  
**Publisher:** USENIX Association  
**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0
- Many Cisco routers and switches support NetFlow services which provides a detailed source of data about network traffic. The Office of Information Technology Enterprise Networking Services group (OIT/ENS) at The Ohio State University (OSU) has written
- 8 TxLinux: using and managing hardware transactional memory in an operating system**  
 Christopher J. Roscheck, Owen S. Hofmann, Donald E. Porter, Barry E. Parmeren, Bharatendu Acharya, Eric Ruppert, Willyichy  
 October 2007  
**SOSP '07: Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles**  
**Publisher:** ACM   
 Full text available  (31.17 MIN),  (13.15 MB),  (324.16 KB)  
**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 147, Downloads (Overall): 700, Citation Count: 0
- TxLinux is a variant of Linux that is the first operating system to use hardware transactional memory (HTM) as synchronization primitive, and the first to manage HTM in the scheduler. This paper describes and measures TxLinux and discusses two innovations ...
- Keywords:** MetaTM, TxLinux, operating systems, optimistic concurrency, synchronization, transactional memo
- Also published in:  
 October 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 6
- 9 Block structured adaptive mesh and time refinement for hybrid, hyperbolic+N-body systems**  
 Francesco Minati, Phillip Colella  
 November 2007  
**Journal of Computational Physics**, Volume 227 Issue 1  
**Publisher:** Academic Press Professional, Inc.  
**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0
- We present a new numerical algorithm for the solution of coupled collisional and collisionless systems, based or the block structured adaptive mesh and time refinement strategy (AMR). We describe the issues associated with the discretization of the system ...
- Keywords:** 65M55, 76M28, Adaptive mesh refinement, Elliptic methods, Higher-order Godunov methods, Part-in-cell methods
- 10 A trusted assessment environment in a network-booted OS**  
 Giorgio Balbo, Philo Grey, Elena Paganini  
 March 2007  
**WBED'07: Proceedings of the sixth conference on IASTED International Conference Web-Based Education - Volume 2**, Volume 2  
**Publisher:** ACTA Press  
**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0
- This paper describes how a laboratory where students usually access the LAN using personal accounts can be configured during examinations. Test questions are automatically corrected by a learning-management system, which is used to authenticate students
- Keywords:** authentication, computer-assisted assessment, innovative web-based teaching and learning technologies, learning management system, platform integration, testing and assessment issues in web-based education
- 11 Mercury and fren: temperature emulation and management for server systems**  
 Tatjana Heath, Ana Paula Gentena, Raduca George, Luis Ramos, Yogesh Joshi, Roberto Bianchini  
 November 2006  
**ASPLOS XII: Proceedings of the 12th international conference on Architectural support for programming languages and operating systems**

**Publisher:** ACM  [Request Permissions](#)

Full text available  [PDF](#) (406 61 KB)

**Bibliometrics:** Downloads (6 Weeks): 28, Downloads (12 Months): 106, Downloads (Overall): 511, Citation Count: ...

Power densities have been increasing rapidly at all levels of server systems. To counter the high temperatures resulting from these densities, systems researchers have recently started work on softwarebased *thermal management*. Unfortunately, research ...

**Keywords:** energy conservation, server clusters, temperature modeling, thermal management

Also published in:

October 2006 SIGARCH Computer Architecture News Volume 34 Issue 5

October 2006 SIGOPS Operating Systems Review Volume 40 Issue 5

November 2006 SIGPLAN Notices Volume 41 Issue 11

#### 12 NFS version 4 Protocol

S. Shepler, B. Callaghan, D. Robinson, R. Thyberg, C. Beame, M. Elster, D. Noyeck

December 2000

NFS version 4 Protocol

**Publisher:** RFC Editor

Full text available  [PDF](#) (450 43 KB)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 0, Downloads (Overall): 21, Citation Count: 9

NFS (Network File System) version 4 is a distributed file system protocol which owes heritage to NFS protocol versions 2 [RFC1094] and 3 [RFC1813]. Unlike earlier versions, the NFS version 4 protocol supports traditional access while integrating ...

#### 13 Security analysis of the palm operating system and its weaknesses against malicious code threats

King-in-Kingin, Mudge Mudge

August 2001 SSYM'01: Proceedings of the 10th conference on USENIX Security Symposium - Volume 10

Volume 10

**Publisher:** USENIX Association

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: ...

Portable devices, such as Personal Digital Assistants (PDAs), are particularly vulnerable to malicious code threats due to their widespread implementation and current lack of a security framework. Although well known in the security industry to be insecure, ...

#### 14 An Open Framework for Dynamic Reconfiguration

Jamie Hillman, Ian Warren

May 2004

ICSE '04: Proceedings of the 26th International Conference on Software Engineering

**Publisher:** IEEE Computer Society

Full text available  [PDF](#) (318 65 KB)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 76, Downloads (Overall): 707, Citation Count: 9

Dynamic reconfiguration techniques appear promising for building systems that have requirements for adaptability and/or high availability. Current systems that support dynamic reconfiguration tend to use a single, fixed, reconfiguration algorithm to manage ...

#### 15 Relative simulation and model checking of real-time processes

Colin Ridge

January 2008 ACSC '08: Proceedings of the thirty-first Australasian conference on Computer science - Volume 74 , Volume 74

**Publisher:** Australian Computer Society, Inc.

Full text available  [PDF](#) (775 87 KB)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 10, Downloads (Overall): 41, Citation Count: 0

Simulation and model checking are commonly used to compare the behaviour of a computer-based system with requirements specification. However, when upgrading an operational legacy system the challenge is usually to compare the behaviour of a proposed ...

**Keywords:** model checking, real-time systems, simulation

#### 16 Free factories: unified infrastructure for data intensive web services

Alexander Wilt Zeranski, Tom Ong, Ward Vanfleteren, George M. Church

June 2008

ATC'08: USENIX 2008 Annual Technical Conference on Annual Technical Conference

**Publisher:** USENIX Association

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: .....

We introduce the Free Factory, a platform for deploying data-intensive web services using small clusters of commodity hardware and free software. Independently administered virtual machines called Freegols give application developers the flexibility .....

**17 Art-directed technology: anatomy of a *Shrek2* sequence**

 **Rachel Pate, Deanna Minter, Constance Vernon, Guillaume Arthos, Lucas Modesto, Alain and Lamontagne, Nick Walker, Tim Cheung, Janet Bentel, Levin, Harry Max**

August 2004

**SIGGRAPH '04: SIGGRAPH 2004 Course Notes**

**Publisher:** ACM 

Full text available  PDF (2.38 MB)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 93, Downloads (Overall): 1040, Citation Count: .....

We have reached a new frontier of computer-animated filmmaking. With each new DreamWorks animated film, we are defining and redefining the technologies, techniques, pipeline, and development process for how to create a film efficiently. Each film's creative .....

**18 Monitoring the connectivity of a grid**

 **Sergio Andrade, Augusto Caffaratti, Antonio Gammie**

October 2004

**MGC '04: Proceedings of the 2nd workshop on Middleware for grid computing**

**Publisher:** ACM

Full text available  PDF (154.66 KB)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 16, Downloads (Overall): 486, Citation Count: 2

Grid computing is a new paradigm that enables the distributed coordination of resources and services which are geographically dispersed, span multiple trust domains and are heterogeneous. Network infrastructure monitoring vital for activities ...

**Keywords:** grid information service, grid monitoring architecture, network monitoring, network service, theod service

**19 The Conquest file system: Better performance through a disk/persistent-RAM hybrid design**

 **Ani Andy Wang, Goeff Kusumoto, Peter Belkar, Gerald Popek**

August 2006

**Transactions on Storage (TOS) , Volume 2 Issue 3**

**Publisher:** ACM 

Full text available  PDF (1.34 MB)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 125, Downloads (Overall): 993, Citation Count: 2

Modern file systems assume the use of disk, a system-wide performance bottleneck for over a decade. Current disk caching and RAM file systems either impose high overhead to access memory content or fail to provide mechanisms to achieve data persistence

**Keywords:** Persistent RAM, file systems, performance measurement, storage management

**20 Automating security configuration for the Grid**

 **Erian C. Clayton, Thomas B. Quillian, Simon N. Foley**

April 2005

**Scientific Programming , Volume 13 Issue 2**

**Publisher:** IOS Press

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: .....

Administration of Grid resources is a time consuming and often tedious job. Most administrative requests are predictable, and in general, handling them requires knowledge of the local resources and the requester. In this paper we discuss a system to

**Keywords:** Decentralised Administration, Grid, Security, Trust Management

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